

# Refine Search

## Search Results -

Terms	Documents
L1 and L2	0

Database:

US Pre-Grant Publication Full-Text Database  
US Patents Full-Text Database  
US OCR Full-Text Database  
EPO Abstracts Database  
JPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

Search:

L3

Refine Search

Recall Text

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## Search History

DATE: Saturday, May 13, 2006 [Printable Copy](#) [Create Case](#)

### Set Name Query

side by side

### Hit Count Set Name

result set

*DB=USPT; PLUR=YES; OP=OR*

<u>L3</u>	11 and l2	0	<u>L3</u>
<u>L2</u>	colas.in.	111	<u>L2</u>
<u>L1</u>	thioredoxin and peptide aptamer	3155	<u>L1</u>

END OF SEARCH HISTORY

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1653HXP

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TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 JAN 17 Pre-1988 INPI data added to MARPAT  
NEWS 4 FEB 21 STN AnaVist, Version 1.1, lets you share your STN AnaVist  
visualization results  
NEWS 5 FEB 22 The IPC thesaurus added to additional patent databases on STN  
NEWS 6 FEB 22 Updates in EPFULL; IPC 8 enhancements added  
NEWS 7 FEB 27 New STN AnaVist pricing effective March 1, 2006  
NEWS 8 MAR 03 Updates in PATDPA; addition of IPC 8 data without attributes  
NEWS 9 MAR 08 X.25 communication option no longer available after June 2006  
NEWS 10 MAR 22 EMBASE is now updated on a daily basis  
NEWS 11 APR 03 New IPC 8 fields and IPC thesaurus added to PATDPAFULL  
NEWS 12 APR 03 Bibliographic data updates resume; new IPC 8 fields and IPC  
thesaurus added in PCTFULL  
NEWS 13 APR 04 STN AnaVist \$500 visualization usage credit offered  
NEWS 14 APR 12 LINSPEC, learning database for INSPEC, reloaded and enhanced  
NEWS 15 APR 12 Improved structure highlighting in FQHIT and QHIT display  
in MARPAT  
NEWS 16 APR 12 Derwent World Patents Index to be reloaded and enhanced during  
second quarter; strategies may be affected  
NEWS 17 MAY 10 CA/Caplus enhanced with 1900-1906 U.S. patent records  
NEWS 18 MAY 11 KOREAPAT updates resume  
  
NEWS EXPRESS FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,  
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.  
V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT  
<http://download.cas.org/express/v8.0-Discover/>  
  
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NEWS IPC8 For general information regarding STN implementation of IPC 8

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 14:46:37 ON 13 MAY 2006

=> file medline, biosis, wpids, dgene  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 14:46:58 ON 13 MAY 2006

FILE 'BIOSIS' ENTERED AT 14:46:58 ON 13 MAY 2006  
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FILE 'WPIDS' ENTERED AT 14:46:58 ON 13 MAY 2006  
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=> s peptide aptamer  
L1 311 PEPTIDE APTAMER

=> s l1 and thioredoxin  
L2 10 L1 AND THIOREDOXIN

=> d l2 ti abs ibib tot

L2 ANSWER 1 OF 10 MEDLINE on STN

TI Sequence-specific peptide aptamers, interacting with the intracellular domain of the epidermal growth factor receptor, interfere with Stat3 activation and inhibit the growth of tumor cells.

AB Receptor tyrosine kinases of the epidermal growth factor (EGF) receptor family regulate essential cellular functions such as proliferation, survival, migration, and differentiation but also play central roles in the etiology and progression of tumors. We have identified short peptide sequences from a random peptide library integrated into the **thioredoxin** scaffold protein, which specifically bind to the intracellular domain of the EGF receptor (EGFR). These molecules have the potential to selectively inhibit specific aspects of EGF receptor signaling and might become valuable as anticancer agents. Intracellular expression of the aptamer encoding gene construct KDI1 or introduction of bacterially expressed KDI1 via a protein transduction domain into EGFR-expressing cells results in KDI1.EGF receptor complex formation, a slower proliferation, and reduced soft agar colony formation. Aptamer KDI1 did not summarily block the EGF receptor tyrosine kinase activity but selectively interfered with the EGF-induced phosphorylation of the tyrosine residues 845, 1068, and 1148 as well as the phosphorylation of tyrosine 317 of p46 Shc. EGF-induced phosphorylation of Stat3 at tyrosine

705 and Stat3-dependent transactivation were also impaired. Transduction of a short synthetic **peptide aptamer** sequence not embedded into the scaffold protein resulted in the same impairment of EGF-induced Stat3 activation.

ACCESSION NUMBER: 2003440696 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 12842895  
TITLE: Sequence-specific peptide aptamers, interacting with the intracellular domain of the epidermal growth factor receptor, interfere with Stat3 activation and inhibit the growth of tumor cells.  
AUTHOR: Buerger Claudia; Nagel-Wolfrum Kerstin; Kunz Christian; Wittig Ilka; Butz Karin; Hoppe-Seyler Felix; Groner Bernd  
CORPORATE SOURCE: Georg Speyer Haus, Institute for Biomedical Research, Paul Ehrlich Strasse 42, D-60596 Frankfurt am Main, Germany.  
SOURCE: The Journal of biological chemistry, (2003 Sep 26) Vol. 278, No. 39, pp. 37610-21. Electronic Publication: 2003-07-02.  
Journal code: 2985121R. ISSN: 0021-9258.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200311  
ENTRY DATE: Entered STN: 23 Sep 2003  
Last Updated on STN: 18 Dec 2003  
Entered Medline: 17 Nov 2003

L2 ANSWER 2 OF 10 MEDLINE on STN  
TI Inhibition of an activated Ras protein with genetically selected peptide aptamers.  
AB Mutant alleles of Ras maintain an activated, GTP-bound conformation and relay mitogenic signals that cannot be turned off. A genetic selection in *Saccharomyces cerevisiae* was used to identify peptide aptamers that suppress the growth arrest phenotype of an activated Ras allele. Peptide aptamers were expressed as C-terminal fusions to glutathione-S-transferase. Modifications that alter the coding capacity of the **peptide aptamer** indicate it is necessary for Ras2-Vall9 suppression. Aptamer expression also reduces the elevated levels of cAMP and suppresses the heat shock sensitivity characteristic of Ras-activated yeast cells. The **peptide aptamer** retains suppressor activity when fused to **thioredoxin**. The **peptide aptamer** expression strategy described here indicates that aptamers presented as unconstrained peptides have functional capacity in vivo.  
Copyright 2003 Wiley Periodicals, Inc. Biotechnol Bioeng 82: 38-46, 2003.

ACCESSION NUMBER: 2003058408 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 12569622  
TITLE: Inhibition of an activated Ras protein with genetically selected peptide aptamers.  
AUTHOR: Kurtz Stephen E; Esposito Kim; Tang Weimin; Menzel Rolf  
CORPORATE SOURCE: Department of Immunology, Veterans Affairs Medical Center, Portland, Oregon 97201, USA.. skurtz@qwest.net  
SOURCE: Biotechnology and bioengineering, (2003 Apr 5) Vol. 82, No. 1, pp. 38-46.  
Journal code: 7502021. ISSN: 0006-3592.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200309  
ENTRY DATE: Entered STN: 6 Feb 2003  
Last Updated on STN: 28 Sep 2003  
Entered Medline: 26 Sep 2003

L2 ANSWER 3 OF 10 MEDLINE on STN  
 TI Selection of genetic agents from random **peptide aptamer** expression libraries.  
 ACCESSION NUMBER: 2001127545 MEDLINE  
 DOCUMENT NUMBER: PubMed ID: 11075346  
 TITLE: Selection of genetic agents from random **peptide aptamer** expression libraries.  
 AUTHOR: Geyer C R; Brent R  
 CORPORATE SOURCE: Molecular Sciences Institute, Berkeley, California 94704, USA.  
 SOURCE: Methods in enzymology, (2000) Vol. 328, pp. 171-208.  
 Journal code: 0212271. ISSN: 0076-6879.  
 PUB. COUNTRY: United States  
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals  
 ENTRY MONTH: 200102  
 ENTRY DATE: Entered STN: 22 Mar 2001  
 Last Updated on STN: 22 Mar 2001  
 Entered Medline: 22 Feb 2001

L2 ANSWER 4 OF 10 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
 TI Sequence-specific peptide aptamers, interacting with the intracellular domain of the epidermal growth factor receptor, interfere with Stat3 activation and inhibit the growth of tumor cells.  
 AB Receptor tyrosine kinases of the epidermal growth factor (EGF) receptor family regulate essential cellular functions such as proliferation, survival, migration, and differentiation but also play central roles in the etiology and progression of tumors. We have identified short peptide sequences from a random peptide library integrated into the **thioredoxin** scaffold protein, which specifically bind to the intracellular domain of the EGF receptor (EGFR). These molecules have the potential to selectively inhibit specific aspects of EGF receptor signaling and might become valuable as anticancer agents. Intracellular expression of the aptamer encoding gene construct KDI1 or introduction of bacterially expressed KDI1 via a protein transduction domain into EGFR-expressing cells results in KDI1cndotEGF receptor complex formation, a slower proliferation, and reduced soft agar colony formation. Aptamer KDI1 did not summarily block the EGF receptor tyrosine kinase activity but selectively interfered with the EGF-induced phosphorylation of the tyrosine residues 845, 1068, and 1148 as well as the phosphorylation of tyrosine 317 of p46 Shc. EGF-induced phosphorylation of Stat3 at tyrosine 705 and Stat3-dependent transactivation were also impaired. Transduction of a short synthetic **peptide aptamer** sequence not embedded into the scaffold protein resulted in the same impairment of EGF-induced Stat3 activation.  
 ACCESSION NUMBER: 2003:542884 BIOSIS  
 DOCUMENT NUMBER: PREV200300546950  
 TITLE: Sequence-specific peptide aptamers, interacting with the intracellular domain of the epidermal growth factor receptor, interfere with Stat3 activation and inhibit the growth of tumor cells.  
 AUTHOR(S): Buerger, Claudia; Nagel-Wolfrum, Kerstin; Kunz, Christian; Wittig, Ilka; Butz, Karin; Hoppe-Seyler, Felix; Groner, Bernd [Reprint Author]  
 CORPORATE SOURCE: Georg Speyer Haus, Institute for Biomedical Research, Paul Ehrlich Strasse 42, D-60596, Frankfurt am Main, Germany  
 groner@em.uni-frankfurt.de  
 SOURCE: Journal of Biological Chemistry, (September 26 2003) Vol. 278, No. 39, pp. 37610-37621. print.  
 CODEN: JBCHA3. ISSN: 0021-9258.  
 DOCUMENT TYPE: Article  
 LANGUAGE: English

ENTRY DATE: Entered STN: 19 Nov 2003  
Last Updated on STN: 19 Nov 2003

L2 ANSWER 5 OF 10 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
TI Inhibition of an activated Ras protein with genetically selected peptide  
aptamers.  
AB Mutant alleles of Ras maintain an activated, GTP-bound conformation and  
relay mitogenic signals that cannot be turned off. A genetic selection in  
*Saccharomyces cerevisiae* was used to identify peptide aptamers that  
suppress the growth arrest phenotype of an activated Ras allele. Peptide  
aptamers were expressed as C-terminal fusions to glutathione-S-  
transferase. Modifications that alter the coding capacity of the  
**peptide aptamer** indicate it is necessary for Ras2-Val19  
suppression. Aptamer expression also reduces the elevated levels of cAMP  
and suppresses the heat shock sensitivity characteristic of Ras-activated  
yeast cells. The **peptide aptamer** retains suppressor  
activity when fused to **thioredoxin**. The **peptide  
aptamer** expression strategy described here indicates that aptamers  
presented as unconstrained peptides have functional capacity in vivo.

ACCESSION NUMBER: 2003:182129 BIOSIS  
DOCUMENT NUMBER: PREV200300182129  
TITLE: Inhibition of an activated Ras protein with genetically  
selected peptide aptamers.  
AUTHOR(S): Kurtz, Stephen E. [Reprint Author]; Esposito, Kim; Tang,  
Weimin; Menzel, Rolf  
CORPORATE SOURCE: Department of Immunology, Veterans Affairs Medical Center,  
Portland, OR, 97201, USA  
skurtz@qwest.net  
SOURCE: Biotechnology and Bioengineering, (April 5 2003) Vol. 82,  
No. 1, pp. 38-46. print.  
CODEN: BIBIAU. ISSN: 0006-3592.  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 9 Apr 2003  
Last Updated on STN: 9 Apr 2003

L2 ANSWER 6 OF 10 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
TI Phosphatidylinositol 3-kinase and Ras: Searching for peptide aptamers.  
ACCESSION NUMBER: 2002:411383 BIOSIS  
DOCUMENT NUMBER: PREV200200411383  
TITLE: Phosphatidylinositol 3-kinase and Ras: Searching for  
peptide aptamers.  
AUTHOR(S): Choy, C. P. [Reprint author]  
CORPORATE SOURCE: Plano Senior High School, Plano, TX, USA  
SOURCE: AAAS Annual Meeting and Science Innovation Exposition,  
(14-19 February, 2002) Vol. 168, pp. A72. print.  
Meeting Info.: Annual Meeting of the American Association  
for the Advancement of Science. Boston, MA, USA. February  
14-19, 2002.  
DOCUMENT TYPE: Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)  
LANGUAGE: English  
ENTRY DATE: Entered STN: 31 Jul 2002  
Last Updated on STN: 23 Sep 2002

L2 ANSWER 7 OF 10 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
TI New LIM2 inhibitor of LMO2, useful in preparing a medicament for the  
prophylaxis and/or treatment of a condition, e.g. tumor formation, tumor  
metastasis, inflammation, LMO2 mediated T-cell leukemia or diabetic  
retinopathy.  
AN 2005-333431 [34] WPIDS  
AB WO2005039613 A UPAB: 20050527  
NOVELTY - An LIM2 inhibitor which is capable of binding to the LIM2 domain

of LMO2 (LIM Domain only 2) and inhibiting the functional activity of LMO2, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:

- (1) nucleic acid encoding an anti-LMO2 antibody (LIM2 inhibitor) described above;
- (2) a vector comprising the nucleic acid;
- (3) a host cell comprising the vector;
- (4) a composition comprising one or more LIM2 inhibitors described above and a pharmaceutical carrier, diluent or excipient; and
- (5) a method for the prophylaxis and/or treatment of any one or more conditions comprising administration to an individual the one or more LIM2 inhibitors described above.

ACTIVITY - Cytostatic; Antiinflammatory; Antidiabetic; Ophthalmological.

No biological data given.

MECHANISM OF ACTION - None given.

USE - The LIM2 inhibitor or composition is useful for inhibiting the functional activity of LMO2 or in preparing a medicament for inhibiting the functional activity of LMO2 or a medicament for the prophylaxis and/or treatment of one or more conditions, e.g. tumor formation, tumor metastasis, inflammation, LMO2 mediated T-cell leukemia or diabetic retinopathy or is used in medicine (claimed).

Dwg.0/8

ACCESSION NUMBER: 2005-333431 [34] WPIDS  
DOC. NO. CPI: C2005-103669  
TITLE: New LIM2 inhibitor of LMO2, useful in preparing a medicament for the prophylaxis and/or treatment of a condition, e.g. tumor formation, tumor metastasis, inflammation, LMO2 mediated T-cell leukemia or diabetic retinopathy.  
DERWENT CLASS: B04 D16  
INVENTOR(S): APPERT, A; TERENCE, H R  
PATENT ASSIGNEE(S): (MEDI-N) MEDICAL RES COUNCIL  
COUNTRY COUNT: 108  
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 2005039613	A1	20050506	(200534)*	EN	77
RW: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW					
W: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW					

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2005039613	A1	WO 2004-GB4299	20041008

PRIORITY APPLN. INFO: GB 2003-24265 20031016

L2 ANSWER 8 OF 10 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
TI Identifying peptide aptamers capable of altering cell phenotype comprises screening cells with a nucleic acid library is useful for finding new peptides to treat associated disease such as cancer or osteoporosis.  
AN 2001-662979 [76] WPIDS  
AB WO 200175178 A UPAB: 20011227  
NOVELTY - Identifying, (M1), a **peptide aptamer** capable

of modifying a cell phenotype, comprising contacting cells with a library of nucleic acids encoding random peptide aptamers, selecting a cell with an altered phenotype and identifying the aptamer(s) expressed in the cell, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) a **peptide aptamer** or its derivative identified by M1;

(2) treating a disease or condition associated with an aberrant cell phenotype, comprising administering a **peptide aptamer** or its derivative identified by M1;

(3) a viral vector encoding a **peptide aptamer** suitable for treating a disease characterized by an aberrant cell phenotype.

ACTIVITY - Cytostatic; osteopathic; circulatory.

MECHANISM OF ACTION - Gene therapy. No details are given.

USE - Identified aptamers are used to treat a disease or condition associated with an aberrant cell phenotype, especially altered of apoptosis, signal transduction, protein trafficking, cell adhesion, membrane transport, cell motility or differentiation. Particular diseases are cancer, osteoporosis or hematochromatosis.

Dwg. 0/5

ACCESSION NUMBER: 2001-662979 [76] WPIDS

DOC. NO. CPI: C2001-194771

TITLE: Identifying peptide aptamers capable of altering cell phenotype comprises screening cells with a nucleic acid library is useful for finding new peptides to treat associated disease such as cancer or osteoporosis.

DERWENT CLASS: B04 D16

INVENTOR(S): BENSON, J D; BRASHER, B B; VINCENT, S M

PATENT ASSIGNEE(S): (ENAN-N) ENANTA PHARM INC

COUNTRY COUNT: 95

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 2001075178	A2	20011011	(200176)*	EN	21
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW					
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW					
AU 2001089284	A	20011015	(200209)		
US 2003108532	A1	20030612	(200340)		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2001075178	A2	WO 2001-US10953	20010404
AU 2001089284	A	AU 2001-89284	20010404
US 2003108532	A1 Provisional	US 2000-194722P	20000404
	Cont of	WO 2001-US10953	20010404
		US 2002-263577	20021003

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 2001089284	A Based on	WO 2001075178

PRIORITY APPLN. INFO: US 2000-194722P 20000404; US



L2 ANSWER 9 OF 10 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
TI New peptides that bind hepatitis human papilloma virus E6 protein, useful  
for treatment and diagnosis of infection and associated diseases, also  
related nucleic acid and antibodies.  
AN 2000-515461 [47] WPIDS  
AB DE 19901008 A UPAB: 20000925  
NOVELTY - Peptides (I), and their variants with up to 40% modification of  
their sequences, are new.

DETAILED DESCRIPTION - Peptides (I) have the formulae:  
NH2-GALVHKLFSQTSGLVCIS-COOH NH2-LDVLGCLVRRLGVLVGLH-COOH  
NH2-CYVECGCEVLTALVNGVRVL-COOH NH2-GVGGLCSCASCVSEDFYASV-COOH  
NH2-IDLLRRLSQLHLLLVSVGG-COOH NH2-LAVLLNGYTRAIVGISFGGW-COOH  
NH2-LCTMCATVFRPLLWVFSIW-COOH NH2-QLLLDLLLGSYEGMSLTSSP-COOH  
NH2-SRSNALHTLDVLLGGT-COOH NH2-GGAVYLC DAGCCFYCCGCSG-COOH  
NH2-CLELFDLFLALSLLLLVGG-COOH NH2-PLCRTCLIESAVLIQLSRL-COOH  
NH2-VFSGVYYAEFVFAASAGGTP-COOH NH2-MAPVGAGRPCCTVCFLTARF-COOH  
NH2-LSMLLF AAKLPVAVLCSWQA-COOH NH2-LVGRVRIGVSVFIRGGRL-L-COOH  
NH2-LFDIFRLCAQPVLVHGHTRV-COOH. INDEPENDENT CLAIMS are also included for  
the following:

- (1) DNA (II) that encodes (I);
- (2) an expression vector that contains (II);
- (3) antibodies (Ab) directed against (I); and
- (4) a composition comprising at least one of (I), vectors of (2)  
and/or Ab, plus usual auxiliaries.

ACTIVITY - Antiviral; anticancer.

MECHANISM OF ACTION - (I) bind to HPV E6 protein, so inhibit its  
anti-apoptotic activity, resulting in elimination of HPV-positive cells.  
Vector pCEP4 was modified to express peptide NH2-GALVHKLFSQTSGLVCIS-COOH  
as a fusion with the herpes simplex virus-1 VP22 protein. The vector was  
used to transfect cervical carcinoma cells and the morphology and growth  
of the cells monitored. Analysis showed inhibition of both the  
anti-apoptotic activity of E6 and growth of the cells.

USE - (I), also vectors containing DNA that encodes (I) and/or  
antibodies directed against (I), are used to treat human papilloma virus  
(HPV) infections and associated diseases, especially dysplasia and  
carcinoma, specifically of the cervix uteri. Also (not claimed), (I) are  
used (i) to detect HBV core proteins for diagnosis of disease and (ii) to  
detect Ab. Ab are useful for monitoring treatment of the specified  
diseases.

DESCRIPTION OF DRAWING(S) - Scheme showing **peptide-  
aptamer** screening in yeast. If E6 protein binds to randomized  
20-mer peptide, presented within **thioredoxin**, then the selection  
gene (ADE2) will be activated.

Dwg.1/2

ACCESSION NUMBER: 2000-515461 [47] WPIDS  
DOC. NO. CPI: C2000-153862  
TITLE: New peptides that bind hepatitis human papilloma virus E6  
protein, useful for treatment and diagnosis of infection  
and associated diseases, also related nucleic acid and  
antibodies.  
DERWENT CLASS: B04 D16  
INVENTOR(S): BUTZ, K; HOPPE-SEYLER, F  
PATENT ASSIGNEE(S): (DEKR-N) DEUT KREBSFORSCHUNGSZENTRUM  
COUNTRY COUNT: 21  
PATENT INFORMATION:

PATENT NO	KIND DATE	WEEK	LA	PG
DE 19901008	A1 20000720	(200047)*		7
WO 2000042064	A1 20000720	(200047)	GE	
RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE				

W: JP US  
 EP 1140987 A1 20011010 (200167) GE  
 R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE  
 JP 2002535969 W 20021029 (200274) 24  
 EP 1140987 B1 20030514 (200333) GE  
 R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE  
 DE 50002164 G 20030618 (200341)  
 US 6610473 B1 20030826 (200357)

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
DE 19901008	A1	DE 1999-1001008	19990113
WO 2000042064	A1	WO 2000-DE141	20000112
EP 1140987	A1	EP 2000-908931	20000112
		WO 2000-DE141	20000112
JP 2002535969	W	JP 2000-593631	20000112
		WO 2000-DE141	20000112
EP 1140987	B1	EP 2000-908931	20000112
		WO 2000-DE141	20000112
DE 50002164	G	DE 2000-00002164	20000112
		EP 2000-908931	20000112
		WO 2000-DE141	20000112
US 6610473	B1	WO 2000-DE141	20000112
		US 2001-889136	20011004

FILING DETAILS:

PATENT NO	KIND	PATENT NO
EP 1140987	A1 Based on	WO 2000042064
JP 2002535969	W Based on	WO 2000042064
EP 1140987	B1 Based on	WO 2000042064
DE 50002164	G Based on	EP 1140987
	Based on	WO 2000042064
US 6610473	B1 Based on	WO 2000042064

PRIORITY APPLN. INFO: DE 1999-19901008 19990113

L2 ANSWER 10 OF 10 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
 TI New peptides that bind hepatitis B core protein, useful for treatment and diagnosis of hepatitis B infection and associated diseases.

AN 2000-499838 [45] WPIDS

AB DE 19901009 A UPAB: 20000918

NOVELTY - Peptides (I), and their variants with up to 40% modification of their sequences, are new.

DETAILED DESCRIPTION - Peptides (I) have the formulae:

NH2-SFYSVLFLWGTCGGFSHSWY-COOH;

NH2-LCETVRWPVCFCSLYVICS-COOH;

NH2-SCAPAWSPAPTVPVFVALYVV-COOH;

NH2-QWGMDSLIRLYLWESLGLLS-COOH;

NH2-IHPLSRGNFFPHVRLMGEWR-COOH;

NH2-GQALCAGVSLFADWLIIESTL-COOH;

NH2-LKHFDPRWPLMSLMSSWACM-COOH;

NH2-PPLRKAFWCRCFNWLSTKRL-COOH; and

NH2-LRKSMCLKVGRDVCYVSLWVF-COOH. INDEPENDENT CLAIMS are also included

for the following:

(1) a DNA (II) that encodes (I);

(2) an expression vector that contains (II);

(3) antibodies (III) directed against (I); and

(4) a composition comprising at least one of (I), (II) and/or (III).

ACTIVITY - Antiviral; anticancer.

MECHANISM OF ACTION - (I) bind to HBV core proteins, so inhibit viral replication. Vector pCEP4 was modified to express peptide C1 NH2-SFYSLFLWGTCTGGFSHSWY-COOH (C1) as a fusion with the herpes simplex virus-1 VP22 protein, forming pCEP4-C1-1. This was used to transfect HepG2 hepatoma cells together with an expression plasmid encoding HBV. Cells and culture supernatant were analyzed for HBV particles and nucleic acids and the results indicated strong inhibition of particle/nucleic acid production. Control cells that did not express C1 did not show any inhibition.

USE - The peptides, DNA molecules and/or antibodies are used to treat hepatitis B virus (HBV) infections and associated diseases, especially chronic hepatitis and hepatocellular carcinoma. The peptides are used

(i) to detect HBV core proteins for diagnosis of disease; and  
(ii) to detect Ab. Ab are useful for monitoring treatment of the specified diseases.

DESCRIPTION OF DRAWING(S) - Scheme showing **peptide-aptamer** screening in yeast. If the core protein (C) binds to a randomized 20-mer peptide, presented within **thioredoxin**, then the selection gene (ADE2) will be activated.

Dwg.1/2

ACCESSION NUMBER: 2000-499838 [45] WPIDS  
DOC. NO. CPI: C2000-150139  
TITLE: New peptides that bind hepatitis B core protein, useful for treatment and diagnosis of hepatitis B infection and associated diseases.  
DERWENT CLASS: B04 D16  
INVENTOR(S): BUTZ, K; HOPPE-SEYLER, F  
PATENT ASSIGNEE(S): (DEKR-N) DEUT KREBSFORSCHUNGSZENTRUM  
COUNTRY COUNT: 21  
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
DE 19901009	A1	20000720	(200045)*		7
WO 2000042063	A2	20000720	(200045)	GE	
RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE					
W: JP US					
EP 1140995	A2	20011010	(200167)	GE	
R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					
JP 2002534111	W	20021015	(200282)		19

#### APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
DE 19901009	A1	DE 1999-1001009	19990113
WO 2000042063	A2	WO 2000-DE140	20000112
EP 1140995	A2	EP 2000-908930	20000112
		WO 2000-DE140	20000112
JP 2002534111	W	JP 2000-593630	20000112
		WO 2000-DE140	20000112

#### FILING DETAILS:

PATENT NO	KIND	PATENT NO
EP 1140995	A2 Based on	WO 2000042063
JP 2002534111	W Based on	WO 2000042063

PRIORITY APPLN. INFO: DE 1999-19901009 19990113

=> s intracellular recognition molecule

L3

# 1 INTRACELLULAR RECOGNITION MOLECULE

=> d l3 ti abs ibib tot

L3 ANSWER 1 OF 1 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Process for specifically modulating the properties of an intracellular target molecule used for the treatment of various disorders.

AN 2002-418829 [45] WPIDS

AB EP 1205191 A UPAB: 20020717

NOVELTY - Process for specifically modulating the properties of an intracellular target molecule T, and/or of a cellular component C which interacts directly or indirectly in a cell with T.

DETAILED DESCRIPTION - Process for specifically modulating the properties of an intracellular target molecule T, and/or of a cellular component C which interacts directly or indirectly in a cell with T, comprising:

(a) introducing into a cell a chimeric molecule, a so-called targeted effector, comprising:

(i) a recognition moiety R having the capacity to specifically interact within the cell, with a site on an intracellular target molecule T, R interacting with T with a first affinity A1; and

(ii) an effector moiety, E covalently linked to the recognition moiety R, E being a molecule or portion which has an initial capacity to exert an effect on at least one molecule M, and which when it is covalently linked to R, acquires the capacity to specifically exert on the intracellular target molecule, T.

INDEPENDENT CLAIMS are also included for the following:

(1) process for the production of a targeted effector having the capacity to specifically modulate the properties of an intracellular target molecule T, and/or a cellular component C which interacts directly or indirectly in a cell with T comprising:

(i) production of a random pool of peptides, so called recognition moieties R;

(ii) screening of the random pool produced in (i) against T in a cell, in conditions suitable to allow identification of recognition moieties R capable of interacting with T;

(iii) optionally contacting the moieties selected in (ii) with proteins other than T to determine the specificity range of each of said moieties, and to identify moieties having a desired specificity range;

(iv) covalent linkage of the recognition moieties R to an effector moiety E, E being a molecule which initially has the capacity to exert a predetermined effect on at least one intracellular component M.;

(v) verification of the affinity A1 with which the recognition moiety R interacts with T, or of the affinity A2 with which the targeted effector, interacts with T;

(vi) if both of A1 and A2 correspond to Kd values greater than  $1 \times 10^{-8}M$ , alteration of the binding region of the effector moiety to adjust the binding affinity of the interaction between T and the selected moiety so that the Kd becomes less than  $1 \times 10^{-8}M$ ;

(2) process for conferring on an effector moiety E the ability to specifically modulate the properties of an intracellular protein T, or an intracellular component which interacts directly or indirectly with T, comprising:

(i) covalently linking the effector moiety E to a recognition moiety R where R comprises a molecule having the capacity to specifically interact within a cell with a site on an intracellular target molecule T, the interaction with T occurring with an affinity A1 which corresponds to a Kd value of less than  $1 \times 10^{-8}M$  and E being a molecule which has an initial capacity to exert the effect on the intracellular target molecule T; and

(ii) optionally optimizing the affinity of the interaction between T and R by altering the chemical composition of the binding region of R to provide an affinity in the desired range;

(3) chimeric molecule, so called targeted effector comprising:  
 (i) a recognition moiety R having the capacity to specifically interact within a cell with a site on an intracellular target molecule T the interaction with T occurring with an affinity A1; and  
 (ii) an effector moiety E, covalently linked to R, E being a molecule which has an initial capacity to exert an effect on at least one molecule M, and which when it is covalently linked to R, acquires the capacity to specifically exert the effect on the intracellular target molecule T;  
 (4) nucleic acid encoding a chimeric protein operably linked to regulatory sequences for expression in a eukaryotic cell;  
 (5) vector capable of stably introducing a nucleic acid into a prokaryotic or eukaryotic cell;  
 (6) pharmaceutical composition comprising a chimeric molecule, or a nucleic acid in association with a pharmaceutically acceptable excipient; and

(7) an **intracellular recognition molecule**  
 R, composed of a conformationally constrained recognition domain, displayed in a platform.

ACTIVITY - Antimicrobial; Immunomodulatory; Nootropic; Neuroprotective; Metabolic; Neuroleptic; Cytostatic; Cardiant.

MECHANISM OF ACTION - None given in the specification.

USE - The chimeric protein or nucleic acid is used in the preparation of a medicament for the treatment of microbial infections, immunological disorders, neurological disorders, metabolic disorders, psychiatric disorders, myopathies, genetic disorders, cancer, cardiovascular disorders and dental disorders (claimed).

Dwg.0/7

ACCESSION NUMBER: 2002-418829 [45] WPIDS  
 DOC. NO. CPI: C2002-118325  
 TITLE: Process for specifically modulating the properties of an intracellular target molecule used for the treatment of various disorders.  
 DERWENT CLASS: B04 D16  
 INVENTOR(S): BRENT, R; COHEN, B A; COLAS, P  
 PATENT ASSIGNEE(S): (CNRS) CENT NAT RECH SCI; (MASS-N) MASSACHUSETTS GEN HOSPITAL; (MOLE-N) MOLECULAR SCI INST; (BREN-I) BRENT R; (COHE-I) COHEN B A; (COLA-I) COLAS P  
 COUNTRY COUNT: 99  
 PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
EP 1205191	A1	20020515	(200245)*	EN	33
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR					
WO 2002055108	A1	20020718	(200257)	EN	
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW					
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW					
US 2003143626	A1	20030731	(200354)		
EP 1345627	A1	20030924	(200363)	EN	
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR					
AU 2002219153	A1	20020724	(200427)		
JP 2004516848	W	20040610	(200438)		254

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
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EP 1205191	A1	EP 2000-403156	20001113
WO 2002055108	A1	WO 2001-EP14199	20011113
US 2003143626	A1	US 2001-66965	20011113
EP 1345627	A1	EP 2001-273076	20011113
		WO 2001-EP14199	20011113
AU 2002219153	A1	AU 2002-219153	20011113
JP 2004516848	W	WO 2001-EP14199	20011113
		JP 2002-555840	20011113

FILING DETAILS:

PATENT NO	KIND	PATENT NO
EP 1345627	A1 Based on	WO 2002055108
AU 2002219153	A1 Based on	WO 2002055108
JP 2004516848	W Based on	WO 2002055108

PRIORITY APPLN. INFO: EP 2000-403156 20001113

=> d his

(FILE 'HOME' ENTERED AT 14:46:37 ON 13 MAY 2006)

FILE 'MEDLINE, BIOSIS, WPIDS, DGENE'. ENTERED AT 14:46:58 ON 13 MAY 2006

L1 311 S PEPTIDE APTAMER  
 L2 10 S L1 AND THIOREDOXIN  
 L3 1 S INTRACELLULAR RECOGNITION MOLECULE

=> s l1 and (conformationally constrained)  
 L4 1 L1 AND (CONFORMATIONALLY CONSTRAINED)

=> d l4 ti abs ibib tot

L4 ANSWER 1 OF 1 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
 TI Targeted modification and transportation of cellular proteins.  
 AB Peptide aptamers are proteins selected from combinatorial libraries that display **conformationally constrained** variable regions. Peptide aptamers can disrupt specific protein interactions and thus represent a useful method for manipulating protein function in vivo. Here, we describe aptamer derivatives that extend the range of functional manipulations. We isolated an aptamer with increased affinity for its Cdk2 target by mutagenizing an existing aptamer and identifying tighter binding mutants with calibrated two-hybrid reporter genes. We used this and other anti-Cdk2 aptamers as recognition domains in chimeric proteins that contained other functional moieties. Aptamers fused to the catalytic domain of a ubiquitin ligase specifically decorated LexA-Cdk2 with ubiquitin moieties in vivo. Aptamers against Cdk2 and another protein, Ste5, that carried a nuclear localization sequence transported their targets into the nucleus. These experiments indicate that fusion proteins containing aptameric recognition moieties will be useful for specific modification of protein function in vivo.

ACCESSION NUMBER: 2001:60196 BIOSIS

DOCUMENT NUMBER: PREV200100060196

TITLE: Targeted modification and transportation of cellular proteins.

AUTHOR(S): Colas, Pierre; Cohen, Barak; Ferrigno, Paul Ko; Silver, Pamela A.; Brent, Roger [Reprint author]

CORPORATE SOURCE: The Molecular Sciences Institute, Berkeley, CA, 94704, USA  
 brent@molsci.org

SOURCE: Proceedings of the National Academy of Sciences of the United States of America, (December 5, 2000) Vol. 97, No. 25, pp. 13720-13725. print.

CODEN: PNASA6. ISSN: 0027-8424.  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 31 Jan 2001  
Last Updated on STN: 12 Feb 2002

=> s l1 and covalent bond  
L5 1 L1 AND COVALENT BOND

=> d l5 ti abs ibib tot

L5 ANSWER 1 OF 1 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
TI Producing fusion molecule capable of use as detector molecule for binding predetermined target analyte by attaching reactive group to protein, bonding coupling reagent, catalyzing reaction between group and reagent.  
AN 2004-041346 [04] WPIDS  
AB US2003198973 A UPAB: 20040115  
NOVELTY - Producing a fusion molecule by attaching a reactive group to an end of a protein sub-unit, bonding a coupling reagent to an end of a nucleic acid, the coupling reagent of the modified nucleic acid capable of displacing the reactive group of the reactive intermediate and catalyzing a reaction between the reactive group and coupling reagent.  
DETAILED DESCRIPTION - Producing (M1) a fusion molecule for use as a detector molecule for binding a predetermined target analyte, comprising attaching a reactive group to an end of a protein sub-unit, creating a reactive intermediate with the reactive group at an end, bonding a coupling reagent to an end of a nucleic acid, forming a modified nucleic acid, the coupling reagent of the modified nucleic acid being capable of displacing the reactive group of the reactive intermediate and catalyzing a reaction between the reactive group of the reactive intermediate and the coupling reagent of the modified nucleic acid, where in the reaction, the reactive group is displaced from the end of the reactive intermediate and a **covalent bond** is formed between the end of the reactive intermediate and the end of the modified nucleic acid. The method optionally (M2) involves attaching a reactive group to an end of a protein sub-unit, creating a reactive intermediate with the reactive group at its end, bonding a phosphoramidite-containing molecule to an end of a nucleic acid, forming a modified nucleic acid, the phosphoramidite-containing molecule of the modified nucleic acid being capable of displacing the reactive group of the reactive intermediate and catalyzing a reaction between the reactive group of the reactive intermediate and the phosphoramidite-containing molecule of the modified nucleic acid, where in the reaction, the reactive group is displaced from the end of the reactive intermediate and a **covalent bond** is formed between the end of the reactive intermediate and the end of the modified nucleic acid. The method optionally (M3) involves attaching a reactive group to an end of a protein sub-unit, creating a reactive intermediate with the reactive group at an end, attaching a coupling reagent to a nucleotide, forming a modified nucleotide, linking the modified nucleotide to an end of a nucleic acid, forming a modified nucleic acid, the coupling reagent of the modified nucleic acid being capable of displacing the reactive group of the reactive intermediate, and catalyzing a reaction between the reactive group of the reactive intermediate and the coupling reagent of the modified nucleic acid. The reactive group is displaced from the end of the reactive intermediate and a **covalent bond** is formed between an end of the reactive intermediate and the end of the modified nucleic acid. The method optionally (M4) involves attaching a reactive group to an end of a protein sub-unit, creating a reactive intermediate with the reactive group at an end, attaching a cysteine-like group to a nucleotide forming a modified nucleotide, linking an end of a nucleic acid to the modified nucleotide, forming a modified nucleic acid, the cysteine-like group of the modified nucleic acid being capable of

displacing the reactive group of the reactive intermediate and catalyzing a reaction between the reactive group of the reactive intermediate and the cysteine-like group of the modified nucleic acid, where in the reaction, the reactive group is displaced from the end of the reactive intermediate and a **covalent bond** is formed between the end of the reactive intermediate and the end of the modified nucleic acid. The method optionally (M5) involves attaching reactive groups to ends of protein sub-units of a quantity of protein sub-units, creating a quantity of reactive intermediates with the reactive groups at ends, bonding coupling reagents to second nucleotides, forming second modified nucleotides, linking ends of a quantity of nucleic acids to the modified nucleotides, and linking second ends of the quantity of the nucleic acids to the second modified nucleotides, forming modified nucleic acids with first and second ends, severing the modified nucleic acids between the first and the second ends, thereby forming, from the first end from the modified nucleic acid modified nucleic acid fragments containing the first modified nucleotide and from the second end from the modified nucleic acid modified nucleic acid fragments containing the second modified nucleotide and catalyzing a first reaction between the first coupling reagent of the first modified nucleic acid fragments and reactive groups of the reactive intermediates of the quantity, wherein in the reaction, the reactive groups are displaced from the first ends of the reactive intermediates, and second covalent bonds are formed between the reactive intermediates and the second modified nucleotides of the second modified nucleic acid fragments.

INDEPENDENT CLAIMS are included for the following:

(1) a fusion molecule (I) capable of binding a predetermined target analyte comprising a protein sub-unit, a linker attached to an end of the protein sub-unit and a DNA molecule attached at an end to the linker by a **covalent bond** or comprising a protein sub unit a cysteine-like group attached to a first end of the protein sub-unit and a nucleic acid attached at an end to the cysteine-like group by a **covalent bond**;

(2) product (II) of (M1);

(3) product (III) of (M5); and

(4) a kit (IV) for use in recognizing or quantifying a target analyte, comprising a detector fusion molecule capable of binding to a target analyte, the detector fusion molecule which comprises a protein sub-unit, a linker attached to an end of the protein sub-unit and a DNA attached at an end to the linker by a **covalent bond**, a unit for amplifying the detector fusion molecule, producing an amplification product, and a unit for visualizing the amplification product.

USE - (I) is useful for recognizing a target analyte in a sample. (I) is useful for quantifying target analyte in a sample. (M3) further comprises resolving the amplification product on a basis of size. (I) is useful for creating a nanostructure on a target analyte (all claimed).

Dwg.0/25

ACCESSION NUMBER: 2004-041346 [04] WPIDS  
 DOC. NO. NON-CPI: N2004-033481  
 DOC. NO. CPI: C2004-016763  
 TITLE: Producing fusion molecule capable of use as detector molecule for binding predetermined target analyte by attaching reactive group to protein, bonding coupling reagent, catalyzing reaction between group and reagent.  
 DERWENT CLASS: B04 D16 S03  
 INVENTOR(S): BURBULIS, I E; CARLSON, R H  
 PATENT ASSIGNEE(S): (MOLE-N) MOLECULAR SCI INST INC; (MOLE-N) MOLECULAR SCI INST  
 COUNTRY COUNT: 104  
 PATENT INFORMATION:

PATENT NO      KIND DATE      WEEK      LA      PG



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US 2003198973  A1 20031023 (200404)*      41
WO 2003091404  A2 20031106 (200404)  EN
RW: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS
    LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW
W:  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
    DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
    KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PH PL
    PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU
    ZA ZM ZW
AU 2003231760  A1 20031110 (200442)
EP 1499747     A2 20050126 (200508)  EN
R:  AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV
    MC MK NL PT RO SE SI SK TR
JP 2005523699  W 20050811 (200554)      32
AU 2003231760  A8 20051020 (200615)
US 2006073481  A1 20060406 (200625)#

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APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
US 2003198973	A1 Provisional	US 2002-374795P	20020423
		US 2002-218233	20020812
WO 2003091404	A2	WO 2003-US12797	20030423
AU 2003231760	A1	AU 2003-231760	20030423
EP 1499747	A2	EP 2003-747316	20030423
		WO 2003-US12797	20030423
JP 2005523699	W	JP 2003-587940	20030423
		WO 2003-US12797	20030423
AU 2003231760	A8	AU 2003-231760	20030423
US 2006073481	A1 Provisional	US 2002-374795P	20020423
		WO 2003-US12797	20030423
		US 2004-515108	20041119

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 2003231760	A1 Based on	WO 2003091404
EP 1499747	A2 Based on	WO 2003091404
JP 2005523699	W Based on	WO 2003091404
AU 2003231760	A8 Based on	WO 2003091404

PRIORITY APPLN. INFO: US 2002-374795P 20020423; US  
2002-218233 20020812; US  
2004-515108 20041119